

AMENDMENTSIn the claims

Please amend Claims 1 and 14, as follows:

Claim 1 (Once Amended). A system for controlling plant and flower moisture transpiration, said system comprising:

a) a first component in the form of a solution, said solution applied to the surface of a plant or flower exposed to air, said first component comprising:

i) a polymer having a water vapor transfer rate of less than $10\text{g-mm/m}^2\text{-day}$ and a glass transition temperature, T_g , greater than about 30°C ;

ii) the balance carriers and adjunct ingredients;

wherein said polymer is in the form of a microemulsion having a particle size less than 400 nanometers;

further wherein said glass transition temperature, T_g , is approximated using the following formula:

(iii) *by PT*

$$\frac{1}{T_{Co}} = \frac{W_1}{T_1} + \frac{W_2}{T_2} + \dots + \frac{W_n}{T_n}$$

wherein W_1 represents the weight portion of monomer 1, W_2 represents the weight portion of monomer 2, T_1 the glass transition temperature of the polymerized monomer 1 in $^\circ\text{K}$, T_2 the glass transition temperature of the polymerized monomer 2 in $^\circ\text{K}$, T_{Co} , the glass transition temperature of the copolymer in $^\circ\text{K}$ and;

b) a second component comprising:

i) a source of energy for the plant or flower being treated;

ii) an antimicrobial;

wherein said second component is dissolved in water to form a solution and into which solution is placed the plant or flower to be preserved.

Claim 14 (Once Amended). A system for controlling plant and flower moisture transpiration, said system comprising:

a) a first component in the form of a solution, said solution applied to the surface of a plant or flower exposed to air, said first component comprising:

i) from about 0.01% to about 20% by weight, of a polymer such that the water vapor transfer rate and glass transition temperature, T_g , of said polymer define a point to the left of a line having the equation:

$$y = -0.068443x + 10$$

wherein the ordinate, x , is the glass transition temperature and the abscissa, y , is the water vapor transfer rate of said polymer;

ii) the balance carriers and adjunct ingredients;

wherein said glass transition temperature is approximated using the following formula:

$$\frac{1}{T_{Co}} = \frac{W_1}{T_1} + \frac{W_2}{T_2} + \dots + \frac{W_n}{T_n}$$

wherein W_1 represents the weight portion of monomer 1, W_2 represents the weight portion of monomer 2, T_1 the glass transition temperature of the polymerized monomer 1 in °K, T_2 the glass transition temperature of the polymerized monomer 2 in °K, T_{Co} , the glass transition temperature of the copolymer in °K; and

✓ b) a second component comprising:

- i) a source of energy for the plant or flower being treated;
- ii) an antimicrobial;

wherein said second component is dissolved in water to form a solution and into which solution is placed the plant or flower to be preserved.